

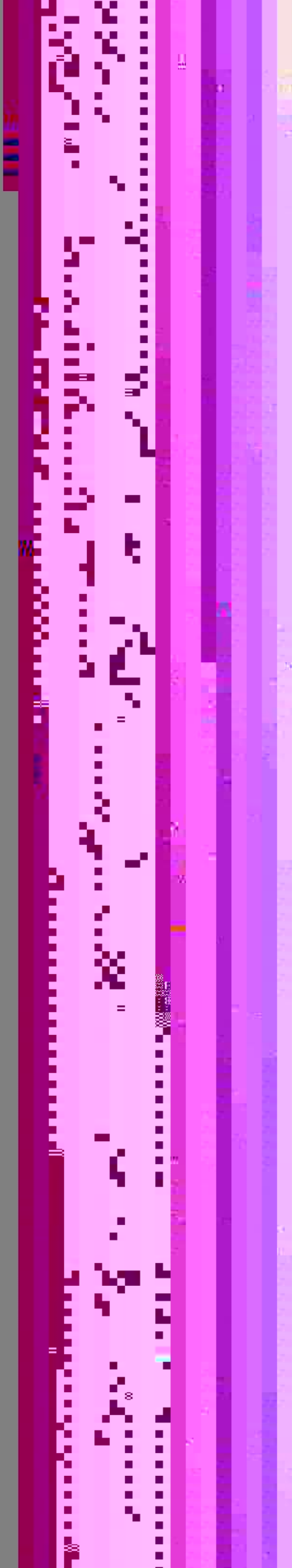
LIST OF FIGURES

Figure	Page
1	
2 (a)	7
2 (b)	7
3	10
4 (a)	11
4 (b)	11
	13
	15
	15
8 (a)	20
	20

LIST OF FIGURES (cont'd)

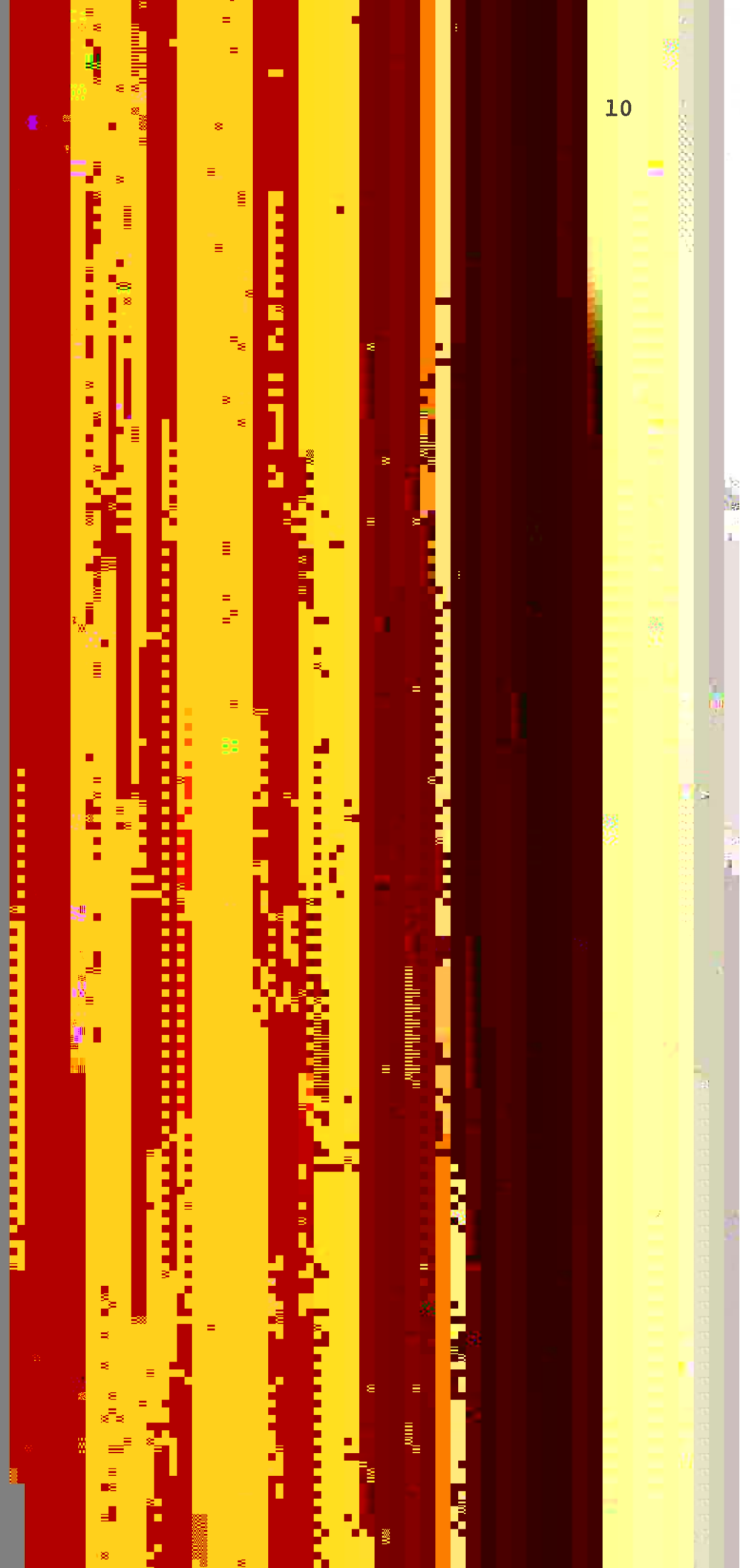
Page

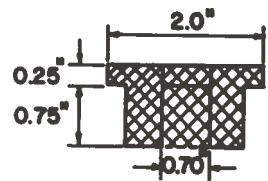




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Figure 2(b). A Diagram of the ²⁵²Cf of Source Capsule





SOURCE TUBE HOLDER

DETAIL NO. 2

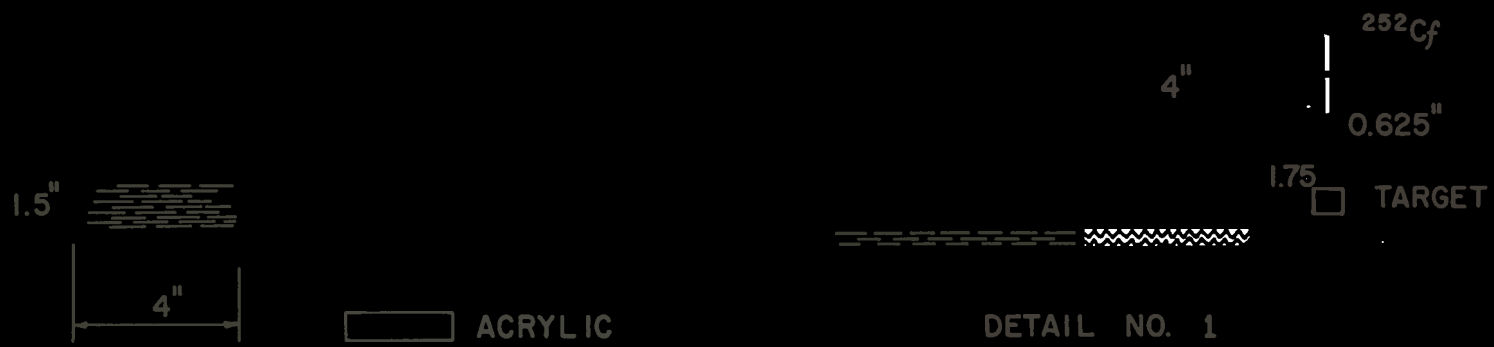


Figure 5. A Diagram of the Collimator in

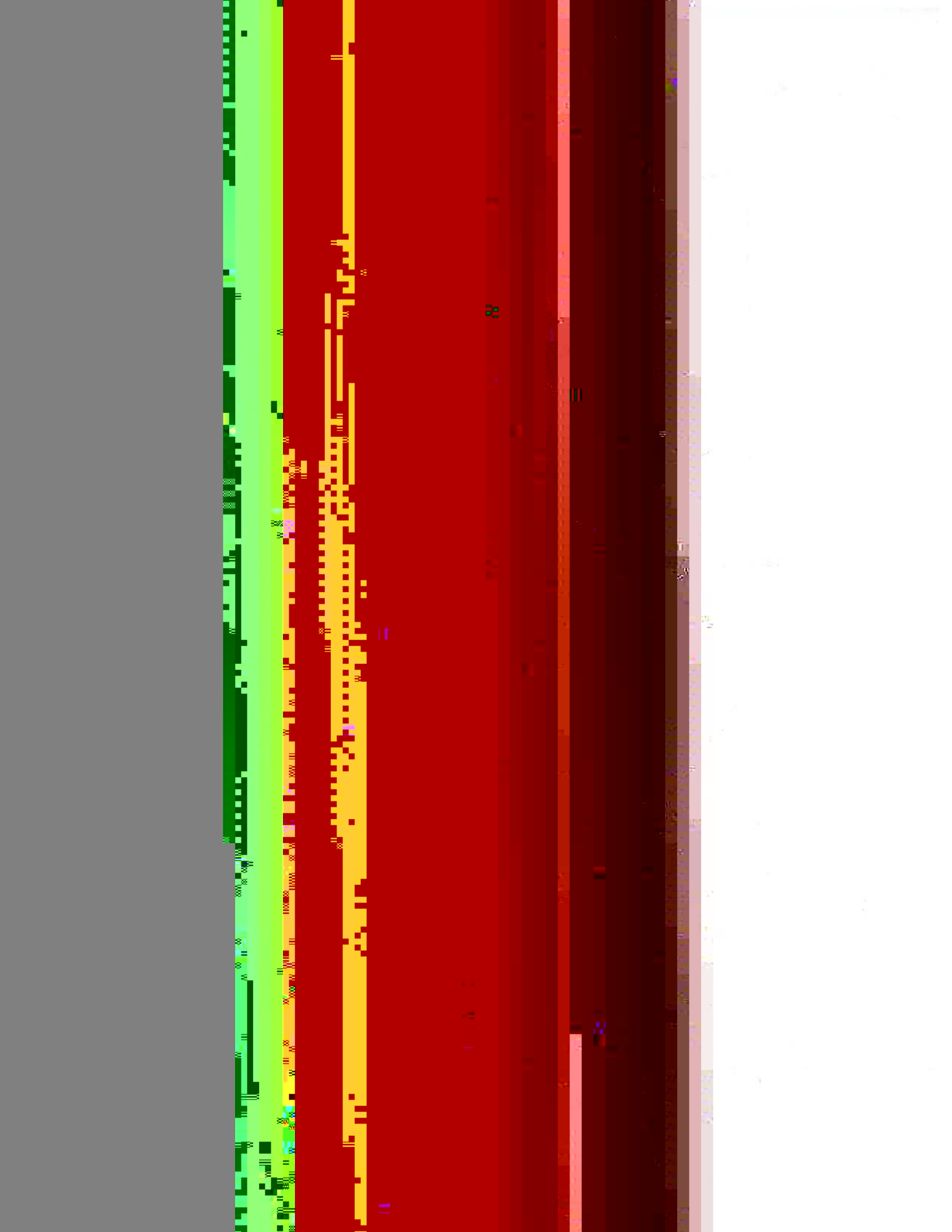


Figure 6. A Block Diagram of the Spectrometer System



-ve

HOLE MOTION



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DISTILLED
WATER

N

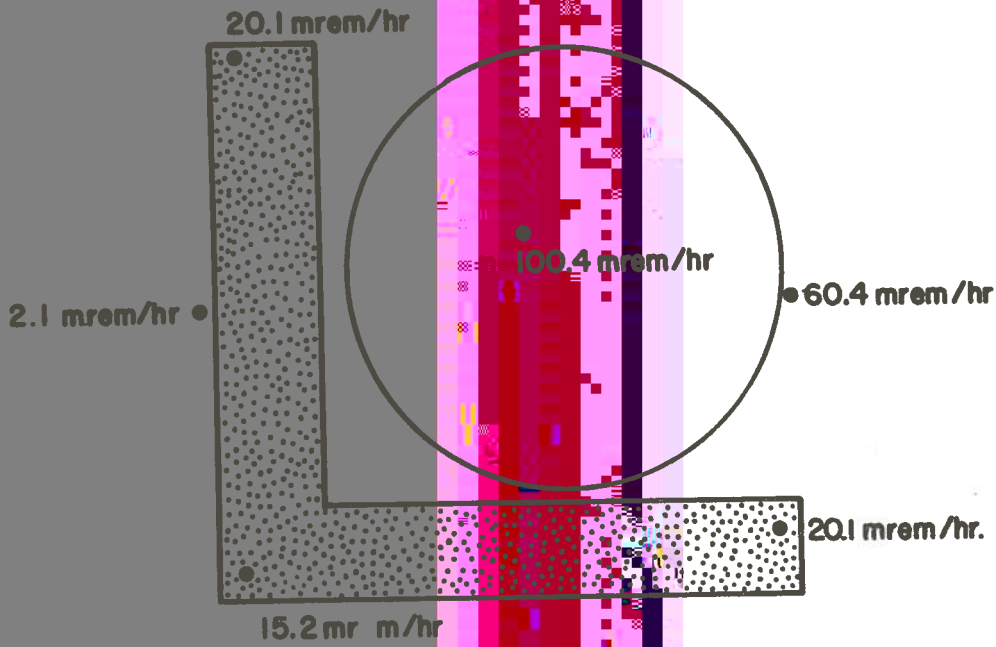




Figure 9(a). The Neutron Capture Gamma-Ray Spectrum From Natural Hg Using a 41 μg ^{252}Cf Source

10

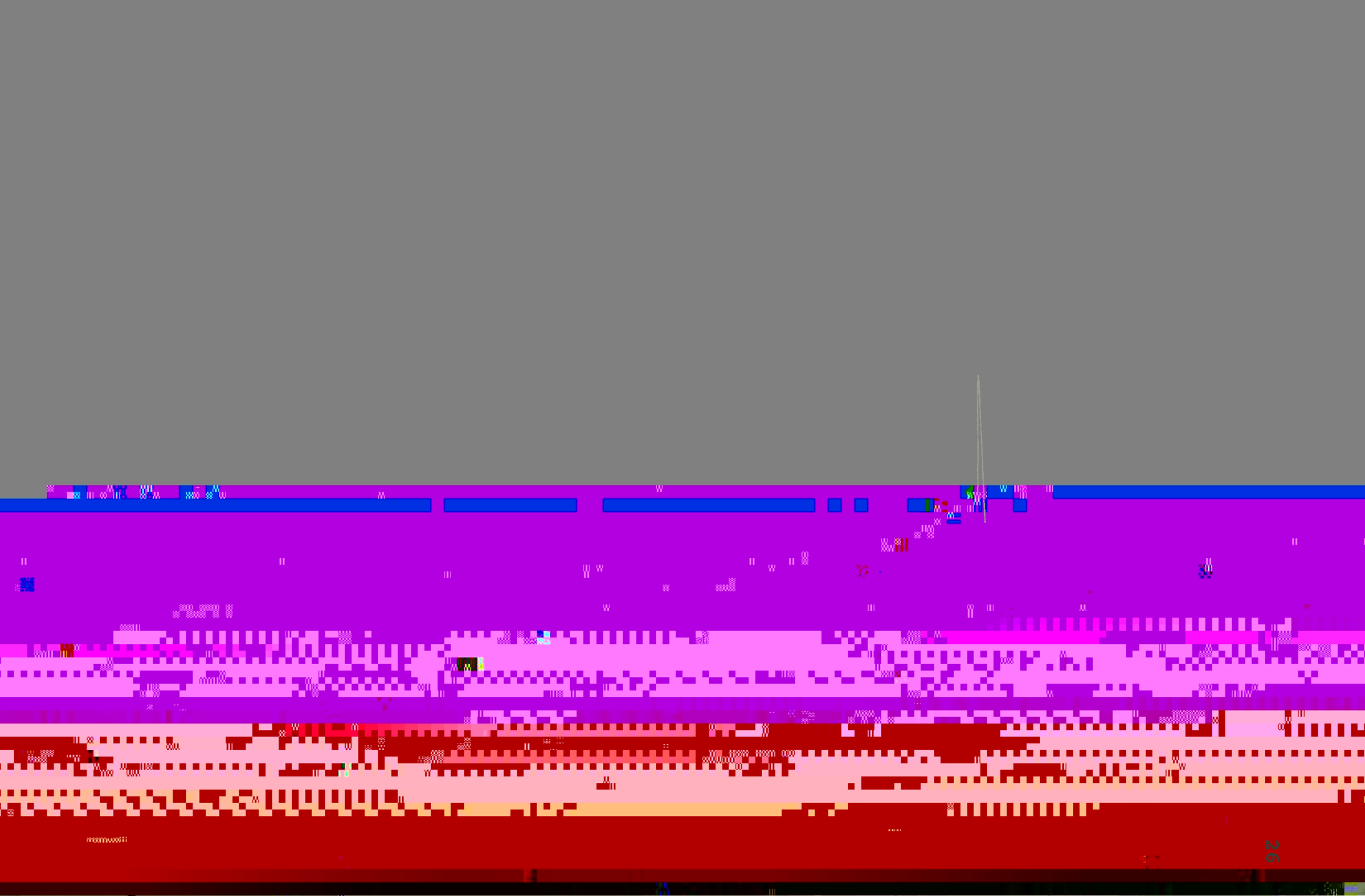
Figur

0+N

200+N

Figure 10(a). The Neutron Capture Gamma-Ray Spectrum From Natural Hg Using a 3.1 mg ^{252}Cf Source





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Figure 13. The Energy Calibration Spectrum

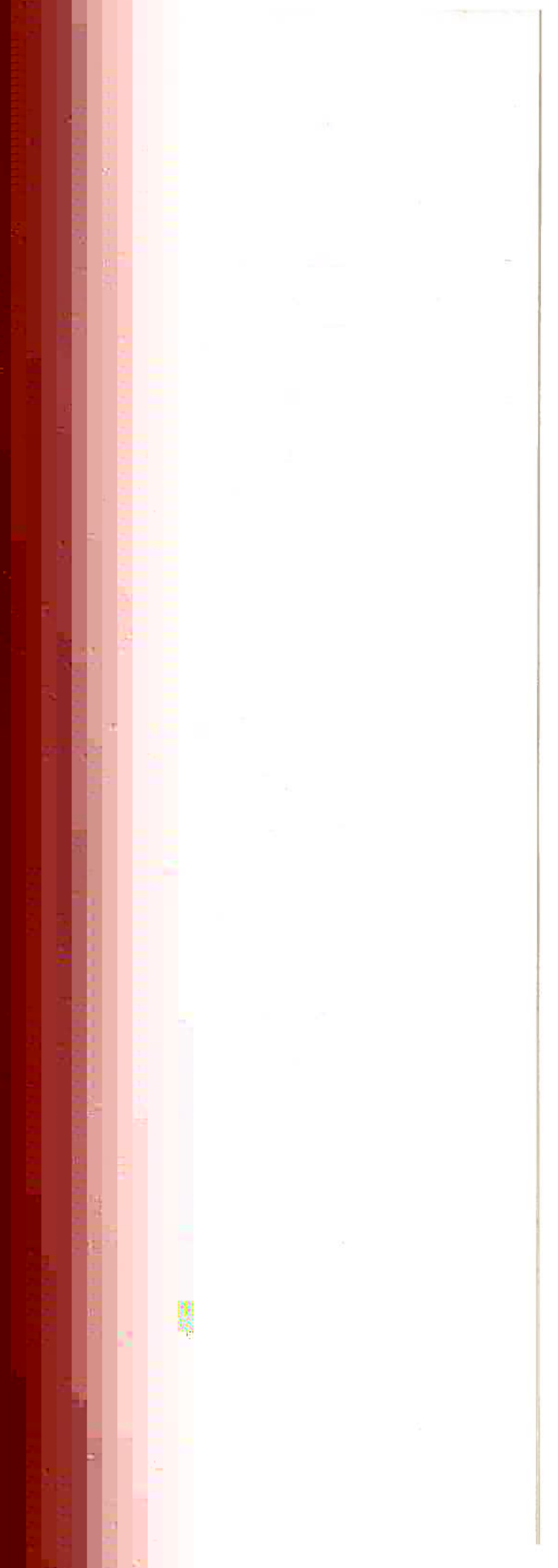
ENERGY NORMALIZATION PE

10

Figure

Figure 14(b). The Neutron Capture Gamma-Ray Spectrum from CCl_4 Using a 3.1 mg ^{252}Cf Source

$$\epsilon_R(E) = \xi t \epsilon_P(E) = \frac{A}{I} ,$$



^dDouble escape peak energy

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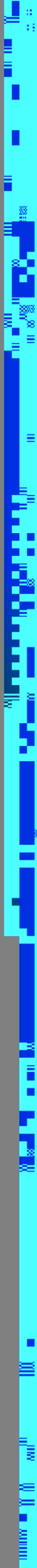
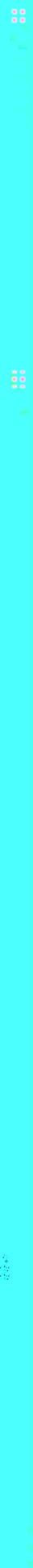






Figure 15. The Photopeak Efficiency Curve for the Detector System



and

- a) These energies were taken from the work of Spits et al.¹⁷
The photopeaks at these energies were observed in the
gamma-ray spectrum from CCl_4 .

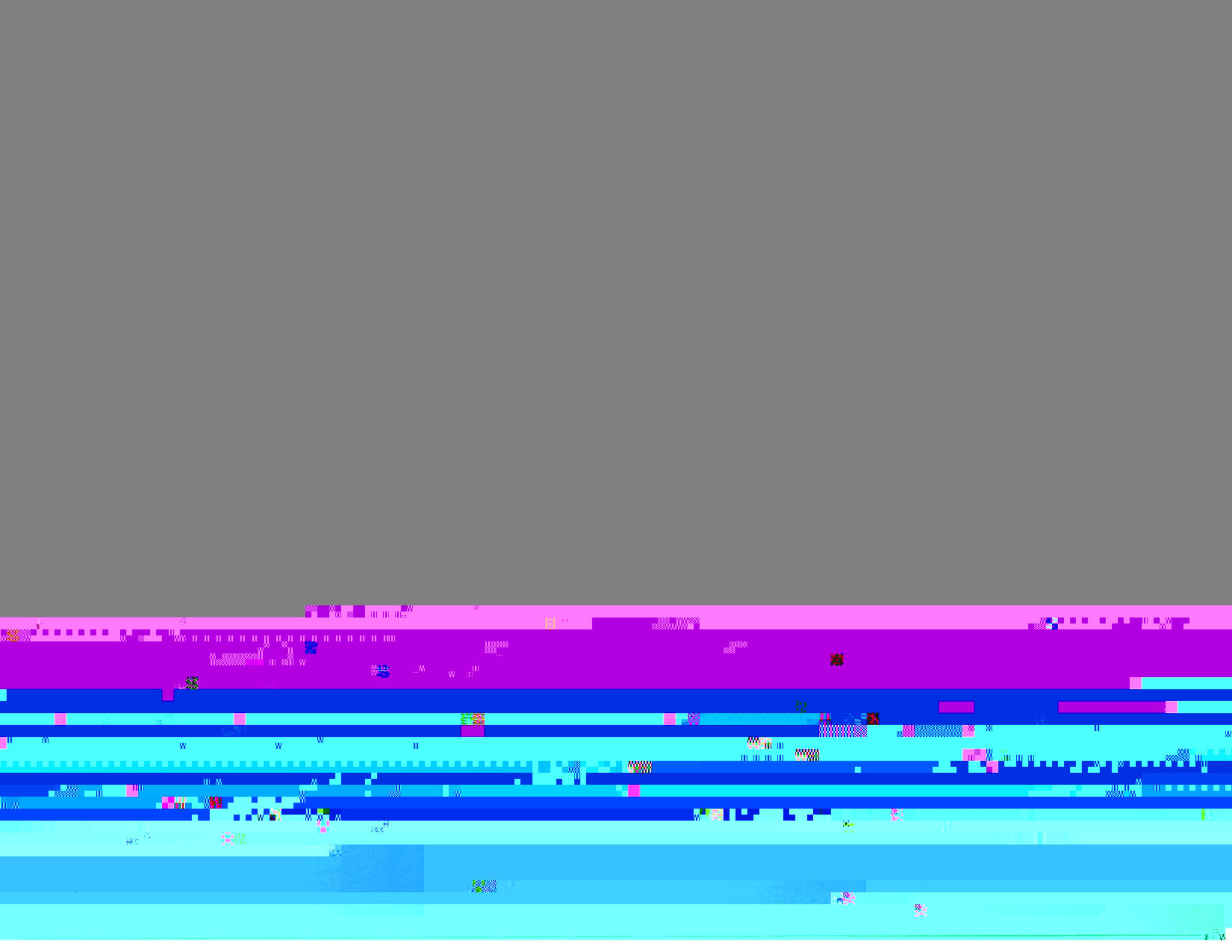


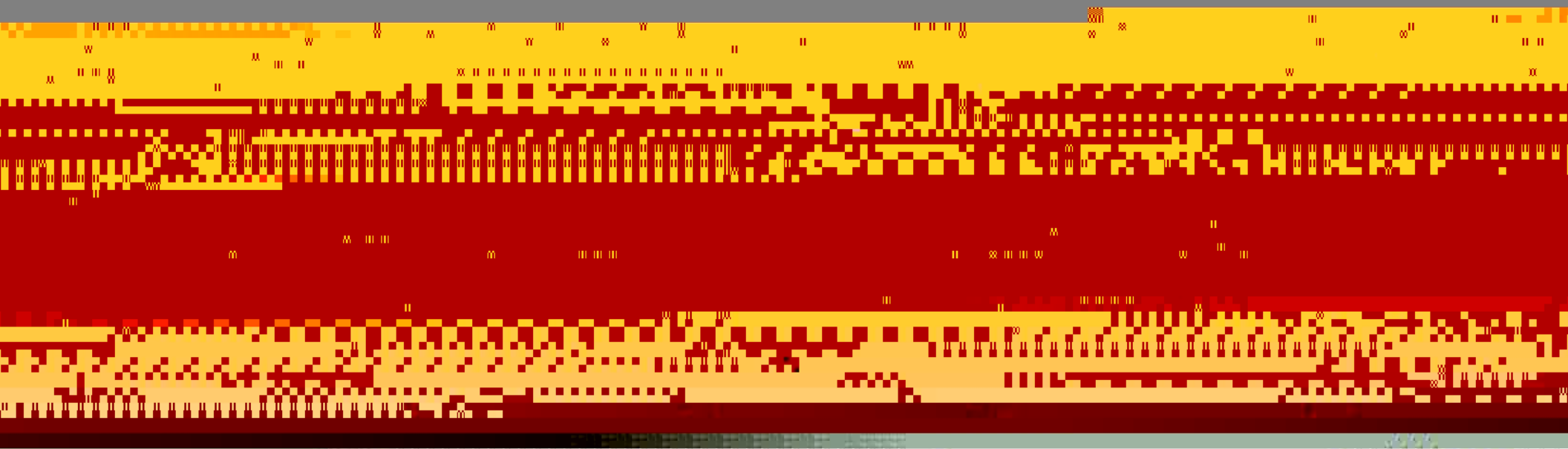
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1911
1912







$$M_A + M_n = M_{A+1} + Q ,$$



Figure 17. The Decay Scheme for ^{200}Hg



TABLE 8



